

SERVICE INSTALLATION CHECKLIST

Unless otherwise noted, all code references are to 49CFR Part 192.

If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

Operator: AMEREN ILLINOIS COMPANY	Operator ID#: 32513
Inspection Date(s): 6/18/2015	Man Days: 1
Inspection Unit: Marion	
Location of Audit: Benton	
Exit Meeting Contact: Kevin Glaspy	
Inspection Type: Design Testing and Construction	
Pipeline Safety Representative(s): Jim Watts	
Company Representative to Receive Report: Michael Fuller	
Company Representative's Email Address: mfuller2@ameren.com	

CONSTRUCTION INFORMATION		
Location of Construction: 1010 Putnam Benton, Illinois	Construction Performed By: Ameren Illinois two man crew.	
Contractor Foreman:		
Operator Inspector:	Ameren Illinois Quality Assurance Assessor, Kevin Glaspy.	
Person(s) On Job Site		
Mike Bass Crew Leader	Chuck Leeper 18 Month Apprentice	Kevin Glaspy, Quality Assurance Assessor
Description of Construction: Staff observed a two person Ameren Illinois crew while installing a new 1 inch pe service at 1010 Putman in Benton, Illinois. The service was connected to a 2 inch steel main using a weld on punch tee. An excess flow valve was installed at the outlet of the tee connection. The service piping was partial plowed in from the meter location to the south edge of the culvert. The culvert and alley were crossed using a pneumatic mole with the remaining service pipe being pulled through the opening created by the mole. Both crew members were currently qualified for the work performed.		

SERVICE INSTALLATION		Status
[192.55]	Steel	Yes
<u>General Comment:</u> <i>The existing main is 2 inch steel piping.</i>		
[192.59]	PE	Yes

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<u>General Comment:</u>		
<i>The new long side service line was installed to supply 1010 Putnam was a 1 inch CTS polyethylene service that is supplied gas via a 2 inch steel coated and wrapped and cathodically protected main.</i>		
[192.59]	Other	No
[192.619,192.621,192.623]	MAOP	60
[192.5]	Class location :	3
[192.53]	Are components qualified for use?	Satisfactory
<u>General Comment:</u>		
<i>The service regulator, shutoff valve, excess flow valve and meter were marked with maximum operating pressures.</i>		
[192.63(a)(2)]	Pipe Size :	1 in CTS
[192.55,192.59]	Specification :	ASTM D 2513
[192.55,192.59]	Manufacturer :	Driscopex
[192.55,192.59]	Pipe Grade :	PE 2406/2708
[192.55,192.59]	Wall Thickness :	.099
[192.63]	Are pipe, valves, and fittings properly marked for identification?	Satisfactory
[192.227]	Welder qualification date:	5/20/2015
[192.227]	Welder's Name:	Mike Bass
[192.225,192.275,192.277,192.279,192.283]	Is pipe joined in accordance with approved written procedures?	Satisfactory
[192.285]	Date of Qualification :	3/4/2015
[192.285]	Joiner's name:	Mike Bass
[192.455]	Is buried metallic pipe coated?	Satisfactory
<u>General Comment:</u>		
<i>The 2 inch steel main is coated with coal tar wrap. The exposed segment at the tap installation location was coated with wax wrap coating.</i>		
[192.455(a)(1)]	Is cathodic protection being provided?	Satisfactory
<u>General Comment:</u>		
<i>Pipe to soil performed indicated a potential level of -.1157 volts.</i>		
[192.455(a)(1)]	Is cathodic protection being provided? By Anodes:	Yes
[192.455(a)(1)]	Is cathodic protection being provided? By Rectifier:	No
<u>General Comment:</u>		
<i>There is no rectifier on the Benton distribution system.</i>		
[192.461]	Does coating meet 192.461?	Satisfactory

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<u>General Comment:</u>		
<i>Wax wrap was used to recoat the steel main in the area where the tap tee was installed.</i>		
[192.461(c)]	Is coating inspected just prior to being installed in the ditch?	Satisfactory
<u>General Comment:</u>		
<i>The wax wrap installed on the main was inspected prior to and during backfill to ensure it is not damaged.</i>		
[192.479]	Are above ground facilities cleaned and coated or jacketed as needed?	Satisfactory
<u>General Comment:</u>		
<i>The above ground piping was painted to protect against atmospheric corrosion. The anodeless riser was coated with an epoxy paint.</i>		
[192.467]	Are pipelines electrically isolated from other underground metallic structures?	Satisfactory
<u>General Comment:</u>		
<i>The riser valve has an insulated union to isolate company facilities from the customer's downstream piping.</i>		
[192.319]	Is ditch back-filled to provide firm support and prevent damage to pipe or coating?	Satisfactory
<u>General Comment:</u>		
<i>The ditch was backfilled with removed spoil on the sections that was not plowed or bored in. A vibratory plow was used to install the piping downstream of the riser to the edge of the road. An air mole was used to make an opening under the road to the edge of the tap opening that was excavated using a compact track hoe.</i>		
[192.321(c)]	Is plastic pipe installed as to minimize shear and tensile forces?	Satisfactory
<u>General Comment:</u>		
<i>A shear sleeve was installed at the tap tee to protect against possible strains.</i>		
[192.321]	Does plastic pipe have means of locating while underground?	Satisfactory
<u>General Comment:</u>		
<i>Tracer wire was installed along with the pe piping.</i>		
[192.325]	Are required clearances from underground structures being maintained?	Not Applicable
<u>General Comment:</u>		
<i>No other underground structures were crossed during the installation.</i>		
[192.327(a)]	Is required cover being obtained for the service line?	Satisfactory
<u>General Comment:</u>		
<i>The service has a minimum depth of cover of 25 inches near the riser. The main had 36 inches of cover.</i>		
[192.503]	Are general testing requirements being met?	Satisfactory
<u>General Comment:</u>		

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<i>The service was pressure tested to 103 psig for 10 minutes.</i>		
[192.517]	Are records being made of strength and leak tests?	Satisfactory
<u>General Comment:</u> <i>The crew completed the required service installation documentation which includes the service pressure test information.</i>		
[192.807]	Were covered employees Operator Qualification records reviewed to ensure qualification?	Satisfactory
<u>General Comment:</u> <i>Mike Bass was qualified in 2014 and is due for requalification 2017. Chuck Leeper completed his 18 Month Apprentice on 2/16/2015. He has not taken the journeyman test as of the date of this installation.</i>		
[192.805(c)]	Were non-qualified personnel being directed and observed by a qualified individual?	Not Applicable
<u>General Comment:</u> <i>There were no non-qualified personnel on the job site.</i>		
[192.805(c)]	Were span of control limitations being followed?	Not Applicable
<u>General Comment:</u> <i>There were no non-qualified personnel on the job site.</i>		
Was a Protocol 9 (Form 15) Completed?		Yes
[192.614]	Were One Call Notifications performed as required?	Satisfactory
<u>General Comment:</u> <i>The dig ticket was indicating a dig start of 6/12/2015 and was good through 7/7/2015.</i>		
[192.614]	Dig Ticket #	X1612069
[192.383(b)]	Is an EFV installed on any new or replaced service line serving a single-family residence?	Satisfactory
<u>General Comment:</u> <i>An EFV was installed at the outlet of the tap tee.</i>		
[192.751]	Are adequate steps taken to minimize the potential for accidental ignition?	Satisfactory
<u>General Comment:</u> <i>A fire extinguisher was present during the service installation. The purge stack was grounded prior to purging the service line. A vent stack was utilized to vent the purge gas safely to atmosphere at the riser location.</i>		

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